

**2.3.2.2 D7G Bulldozer.** (See Figure 2-7.) See Figure 1-2 for Independent Target System (ITS) components.

**2.3.2.2.1 Detector Array.**

**WARNING**

Never touch the vehicle exhaust equipment when installing or removing MILES 2000 equipment. The exhaust can be very hot and cause severe burns.

**CAUTION**

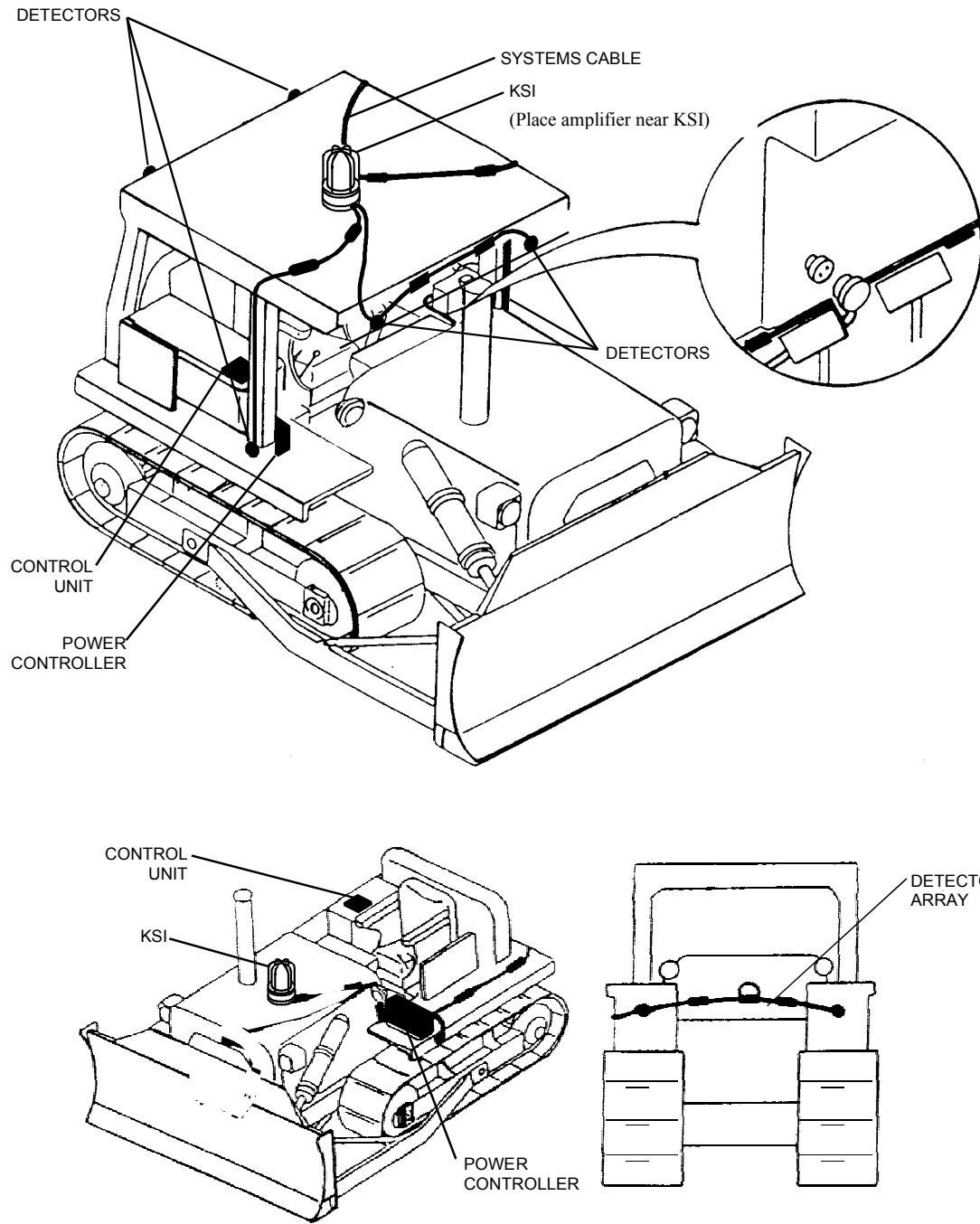
Do not let MILES 2000 cables touch the vehicle exhaust or heating equipment. Heat can cause damage to cables and/or malfunction of the equipment.

ITS vehicle configurations are varied, so there is no specific way to install the Detector Array on a vehicle. When installing the Detector Array, follow the guidelines below:

- a. Remove Detector Array from the transit case, and inspect cable segments and detectors for damage.
- b. Wipe all detectors clean and inspect connector for dirt and/or damage.
- c. Replace and report damaged equipment, as required.
- d. When routing array segments, whenever possible, there should be two (2) detectors installed on the right and left sides, and one (1) on the front and rear. However, this is an ideal layout which should only be used if placement can be accomplished without interfering with normal vehicle operations or presenting a safety hazard.
- e. Secure all array segments with fastener tape or fastener tape tie-wraps at frequent intervals. Extra cable between detectors should be rolled and secured to the vehicle.

**2.3.2.2.2 Kill Status Indicator (KSI).** See Figure 1-2 for KSI mount adapters/plates.

- a. Remove the KSI and adapter from the transit case, and inspect the KSI for damage.
- b. Inspect strobe assembly of the KSI for cracks. Inspect connector for dirt and/or damage.
- c. Replace and report damaged equipment, as required.
- d. Apply primer and fastener tape to the bottom of the adapter, and to the bottom of the KSI, if needed. (Refer to paragraph 2.3.1.1 for fastener tape application.)
- e. Apply primer and fastener tape to the cab top of the vehicle.



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**Figure 2-7. D7G Bulldozer MILES Installation.**

**NOTE**

For the following step, make sure the KSI and the mast assembly are lined up as described before placing them together, as the fastener tape will make it difficult to separate the units to realign them.

- f. Attach the adapter to the vehicle, and ensure the KSI and adapter are securely mounted.

**2.3.2.2.3 Control Unit (CU).**

- a. Remove the CU from the transit case and inspect for damage.
- b. Inspect connector for dirt and/or damage.
- c. Replace and report damaged equipment, as required.
- d. Apply primer and fastener tape to the bottom of the of the CU, if needed. (Refer to paragraph 2.3.1.1 for fastener tape application.)
- e. Apply primer and fastener tape to the right side shelf.
- f. Mount the CU to the right side shelf, and ensure it is firmly seated.

**2.3.2.2.4 Power Controller.**

- a. Remove the Power Controller from the transit case and inspect for damage.
- b. Inspect connector for dirt and/or damage.
- c. Replace and report damaged equipment, as required.
- d. Apply primer and two (2) strips of fastener tape to the bottom of the Power Controller, if needed. (Refer to paragraph 2.3.1.1 for fastener tape application.)
- e. Apply primer and fastener tape to an area on the floor of the vehicle where the Power Controller will not be in the way.
- f. Mount the Power Controller to the floor and ensure it is firmly seated.

**2.3.2.2.5 System Cable.**

**NOTE**

Route the cables and connect them to the individual units. Secure the cables safely out of the way using fastener tape tie-wraps at intervals.

Letter/number designators are shown in parenthesis. For example: (P3) or (J1). The designators have been added to clarify connector identifications. Each system cable segment is labeled with its unique designator.

Cable segments are labeled with "P" (plug) and "J" (jack) designators as shown in the following example: "P1/J2," where P1 indicates that the connector of that cable segment is plug #1, and J2 indicates the routing destination, jack #2, of the equipment/cable to which the cable segment is being routed. The installation instructions of this manual identify the equipment/cable to which each cable segment is to be routed.

- a. Remove the system cable from the transit case. Inspect the entire length of the cable, making sure there are no bare wires exposed, and the cable has not been damaged in any way.
- b. Inspect connectors for dirt and/or damage.
- c. Replace and report damaged equipment, as required.
- d. Route segment (P3-green sleeve) to the KSI, and connect (P3) to (J1) of the KSI.
- e. Route segment (P4-gray sleeve) to the Detector Array, and connect (P4) to (J1) of the Detector Array.
- f. Route segment (P2-red sleeve) to the CU, and connect (P2) to (J1) of the CU.
- g. Route segment (P1-violet sleeve) to the Power Controller, and connect (P1) to (J1) of the Power Controller.
- h. Route segment (P5) to the vehicle power slave receptacle, and connect (P5) to the slave receptacle connector.
- i. Secure all cables out of the way with fastener tape or fastener tape tie-wraps.